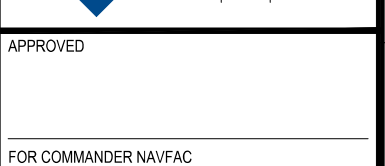
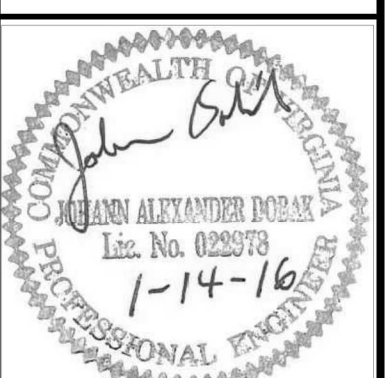
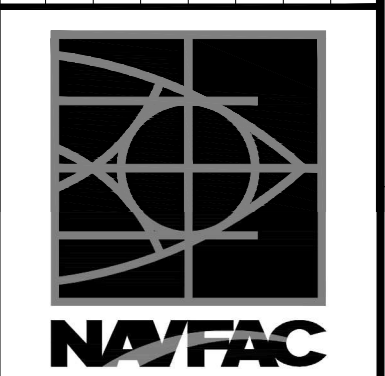


- NOTES:
1. CONTRACTOR SHALL USE LIGHT RUBBER TIRE VEHICLES FOR MINIMUM SITE DISTURBANCE.
  2. THE CONTRACTOR SHALL DISTURB ONLY AN AREA THAT CAN BE STABILIZED AT THE END OF EACH WORKDAY. NO AREAS SHALL BE LEFT UN-STABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN EROSION & SEDIMENT CONTROL DEVICE.

REV	DESCRIPTION	DATE



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FOR COMMANDER NAVFAC  
ACTIVITY

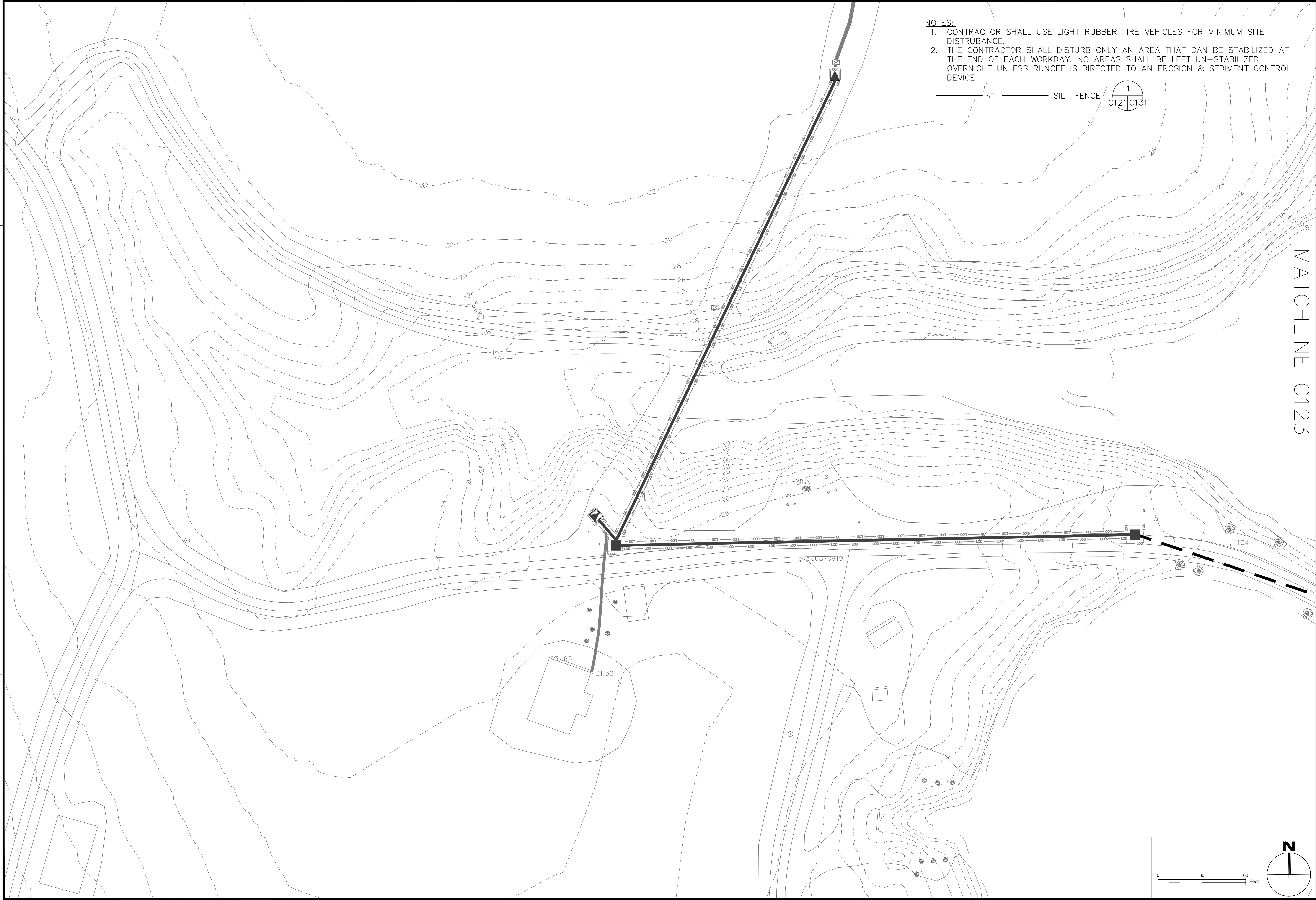
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DES SR CNPT DRW SRC CHK JAD  
<<PMDM>>

BRANCH MANAGER  
CHIEF ENGINEER  
<<300>>

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION  
MARINE CORPS BASE QUANTICO, VIRGINIA  
MARINE CORPS BASE QUANTICO  
P714 REPAIR OCS ELECTRIC SYSTEM  
SUBSTATION, CONDUITS, AND CABLES  
QUANTICO, VA  
EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS NOTED  
EPROJECT NO.: QU1536M  
CONSTR. CONTR. NO.:  
NAVFAC DRAWING NO.: 3189937  
SHEET 28 OF 105  
C-121  
DRAWING REVISION: 10 MARCH 2009

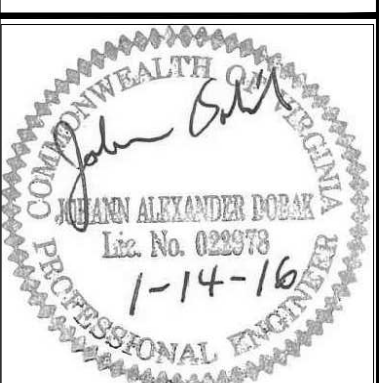
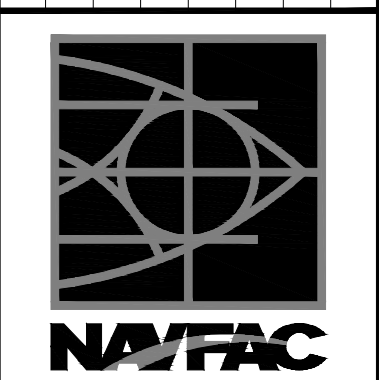




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SF ——— SILT FENCE C121/C131

DATE	DESCRIPTION	APP



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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE 14/01/16

DES SR CNPT DRW SRC CHK JAD

<<PMO&>>

BRANCH MANAGER

CHIEF ENGINEER

<<X&>>

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

RESIDENT OFFICER IN CHARGE OF CONSTRUCTION

MARINE CORPS BASE QUANTICO

QUANTICO, VA

P714 REPAIR OCS ELECTRIC SYSTEM

SUBSTATION, CONDUITS, AND CABLES

EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS NOTED

PROJECT NO.: QU1536M

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 3189938

SHEET 29 OF 105

C-122

DRAWING REVISION: 10 MARCH 2009



















PARADE GROUND

11

1. CONTRACTOR SHALL USE LIGHT RUBBER TIRE VEHICLES FOR MINIMUM SITE DISTURBANCE.
2. THE CONTRACTOR SHALL DISTURB ONLY AN AREA THAT CAN BE STABILIZED AT THE END OF EACH WORKDAY. NO AREAS SHALL BE LEFT UN-STABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN EROSION & SEDIMENT CONTROL DEVICE.

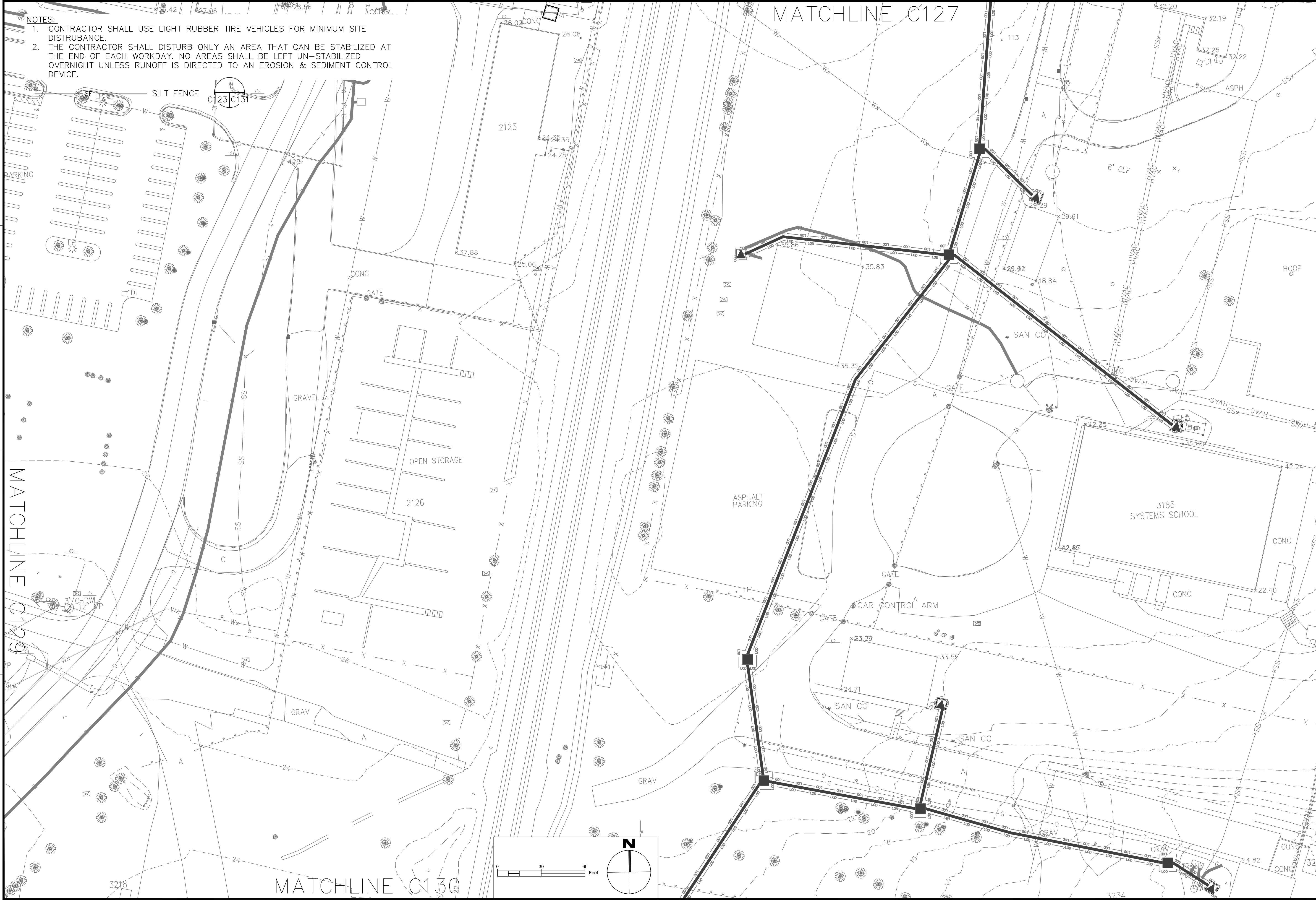
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C127 | C131

INLET PROTECTION

4

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION  
MARINE CORPS BASE QUANTICO, VIRGINIA  
QUANTICO, VA  
MARINE CORPS BASE QUANTICO  
**P714 REPAIR OCS ELECTRIC SYSTEM**  
**SUBSTATION, CONDUITS, AND CABLES**  
EROSION AND SEDIMENT CONTROL PLAN





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DATE		APP	
DESCRIPTION		SYN	
<b>SUMMER CONSULTANTS INCORPORATED</b> 2500 Westpark Drive   Suite 400   Midlothian, VA 22122 (703) 556-8820   www.summerconsultants.com			
 ALPHA CORPORATION 7155 RIDGETOP CIRCLE, SUITE 200 DULLES, VA 20186 (703) 451-0800 www.alphacorporation.com			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO DATE 14/01/16			
DESIGNER SRC/NPT/DRW SRC CHK JAD			
<<PMO/DO>>			
BRANCH MANAGER			
CHIEF ENGINEER			
<<DO>>			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND RESIDENT OFFICER IN CHARGE OF CONSTRUCTION MARINE CORPS BASE QUANTICO QUANTICO, VA			
<b>P714 REPAIR OCS ELECTRIC SYSTEM SUBSTATION, CONDUITS, AND CABLES</b>			
EROSION AND SEDIMENT CONTROL PLAN			
SCALE: AS NOTED			
EPROJCT NO.: QU1536M			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO. 3189944			
SHEET 35 OF 105			
<b>C-128</b>			
DRAWING REVISION: 10 MARCH 2009			









- NOTES:
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DATE		APP
DESCRIPTION		SYN
<b>SUMMER CONSULTANTS INCORPORATED</b> 2800 Westpark Drive   Suite 400   McLean, VA 22102 (703) 556-8820   www.summerconsultants.com		
 ALPHA CORPORATION 21351 RIDGETOP CIRCLE SUITE 200 DULLES, VA 20186 (703) 451-0800 www.alphacorporation.com		
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FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO DATE 14/01/16		
DES	SRC	NPT
DRW	SRC	CHK
JAD		
<<PMO&P>>		
BRANCH MANAGER		
CHIEF ENGINEER		
<<300>>		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND RESIDENT OFFICER IN CHARGE OF CONSTRUCTION MARINE CORPS BASE QUANTICO QUANTICO, VA		
<b>P714 REPAIR OCS ELECTRIC SYSTEM SUBSTATION, CONDUITS, AND CABLES</b>		
EROSION AND SEDIMENT CONTROL PLAN		
SCALE: AS NOTED		
EPROJECT NO.: QU1536M		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO. 3189946		
SHEET 37 OF 105		
<b>C-130</b>		
DRAWING REVISION: 10 MARCH 2009		

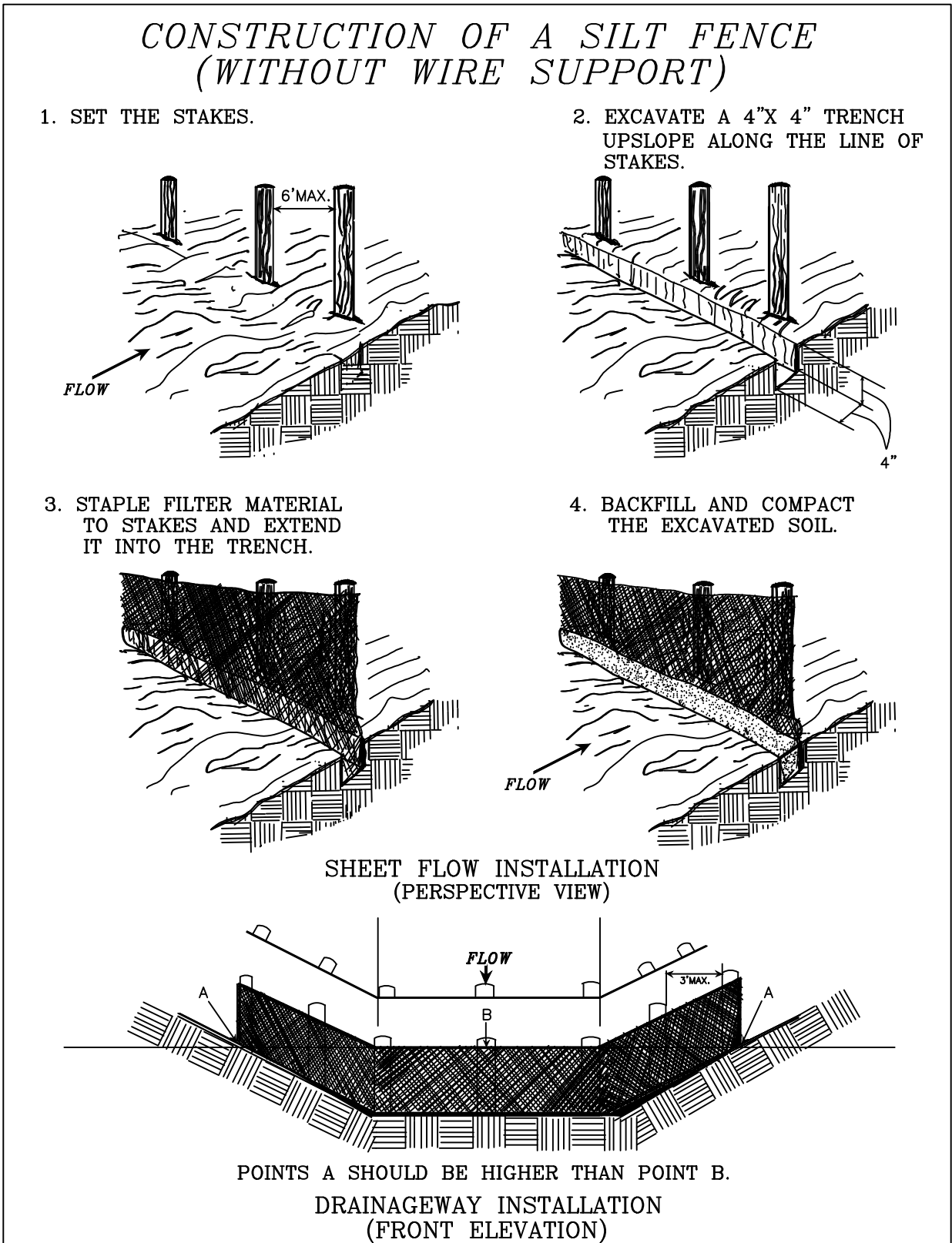


D

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B

A



SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VA. DSWC Sherwood and Wyan

1  
C121 TO C130 | C131  
**SILT FENCE**  
NOT TO SCALE

TABLE 3.32-C  
SITE SPECIFIC PERMANENT SEEDING MIXTURES  
FOR APPALACHIAN/MOUNTAIN AREA

Minimum Core Lawn	Total Lbs. Per Acre
- Commercial or Residential	200-250 lbs.
- Ryegrass	90-100%
- Improved Perennial Ryegrass *	0-10%

High-Maintenance Lawn

Minimum of three (3) up to five (5) varieties of bluegrass from approved list for use in Virginia.	125 lbs.
--	----------

General Slope (3:1 or less)

- Ryegrass	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop**	20 lbs.
	150 lbs

Low-Maintenance Slope (Steeper than 3:1)

- Ryegrass	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop**	20 lbs.
- Crownvetch ***	20 lbs.
	150 lbs

\* Perennial Ryegrass will germinate faster and at lower soil temperatures than fescue, thereby providing cover and erosion resistance for seedbed.

\*\* Use seasonal nurse crop in accordance with seeding dates as stated below:

March, April through May 15th	Annual Rye
May 16th through August 15th	Foxtail Millet
August 16th through Sept., Oct.	Annual Rye
November through February	Winter Rye

\*\*\* If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may also be included in any slope or low-maintenance mixtures during warmer seeding periods; add 10-20 lbs/acre in mixes.

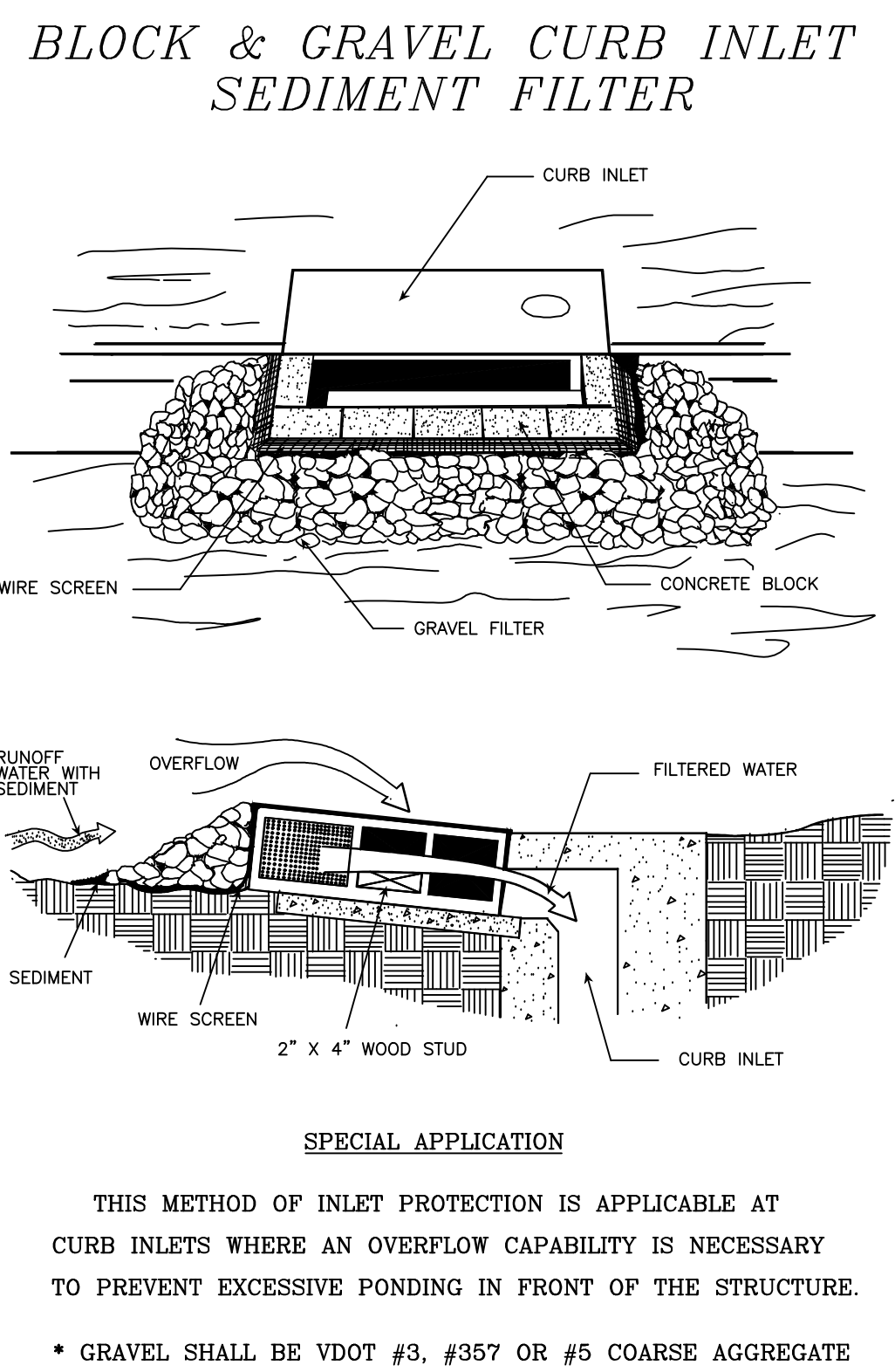
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C121 TO C130 | C131  
**PERMANENT SEEDING TABLES**  
NOT TO SCALE

TABLE 3.31-B  
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS  
"QUICK REFERENCE FOR ALL REGIONS"

Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass ( <i>Lolium multi-florum</i> ) & Cereal (Winter) Rye ( <i>Secal cereale</i> )	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass ( <i>Lolium multi-florum</i> )	60 - 100
May 1 - Aug. 31	German Millet ( <i>Setaria italica</i> )	50

Seeding

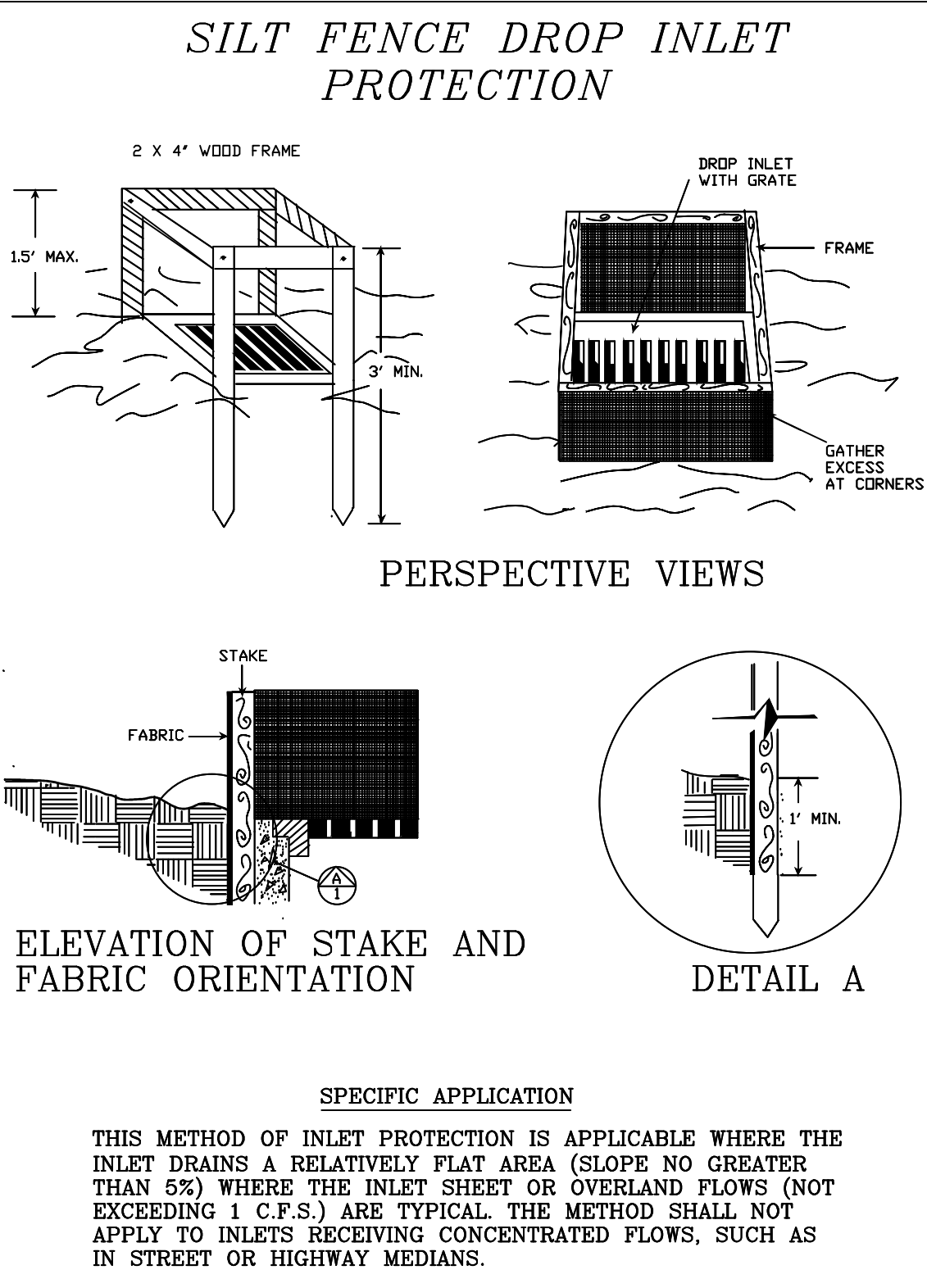
Seed shall be evenly applied with a broadcast seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses and legumes shall be planted with no less than 1/4" soil cover.



SOURCE: VA. DSWC

PLATE 3.07-8

3  
C121 TO C130 | C131  
**STORM DRAIN INLET PROTECTION**  
NOT TO SCALE



SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

PLATE 3.07-1

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE 14/01/16

DES SRC/NPT/DRW SRC CHK JAD

BRANCH MANAGER

CHIEF ENGINEER

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON

RESIDENT OFFICER IN CHARGE OF CONSTRUCTION

MARINE CORPS BASE QUANTICO

QUANTICO, VA

P714 REPAIR OCS ELECTRIC SYSTEM

SUBSTATION, CONDUITS, AND CABLES

EROSION & SEDIMENT CONTROL DETAILS

SCALE: AS NOTED

PROJECT NO.: QU1536M

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 3189947

SHEET 38 OF 105

C-131

DRAWING REVISION: 10 MARCH 2009



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EROSION & SEDIMENT CONTROL STANDARD NOTES

1.

ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE AND INSPECTED AND APPROVED BY THE OWNER INSPECTOR PRIOR TO CLEARING, STRIPPING OF TOPSOIL OR GRADING.
2.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE KEPT ON THE SITE AT ALL TIMES.
3.

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE OWNER.
4.

ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.
5.

WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.
6.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
7.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AT ALL TIMES.
8.

THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

A.

GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.

B.

SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

C.

SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

D.

ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES MUST BE MADE IMMEDIATELY AFTER THE INSPECTION.

9.

SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.

10.

PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

11.

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. SEEDING AND SELECTION OF THE SEED MIXTURE SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STANDARD AND SPECIFICATION 3.32. ROADS AND PARKING AREAS SHALL BE STABILIZED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED.

12.

WHEN SEDIMENT IS TRANSPORTED ONTO A PAVED ROAD SURFACE, THE ROAD WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

13.

AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC. TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD.

14.

NO EROSION & SEDIMENT CONTROL MEASURE SHALL BE REMOVED WITHOUT THE PERMISSION OF THE OWNER.
- GENERAL E&S NOTES:
- THE OWNER HAS THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS IN THE FIELD AS SITE CONDITIONS WARRANT. IN ADDITION, NO SEDIMENT TRAP DEVICES MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE OWNER.
- AFTER CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE DETENTION BASIN MUST BE PERMANENTLY STABILIZED WITH VEGETATION UPON THE APPROVAL OF THE OWNER.
- MINIMUM CONSTRUCTION STANDARDS NARRATIVE
1.

DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

2.

CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

3.

BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

4.

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A.

NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B.

EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

C.

EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

D.

MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.

E.

RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

F.

APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

5.

THE CONTRACTOR SHALL USE LIGHT RUBBER TIRE VEHICLES FOR MINIMUM SITE DISTURBANCE.

6.

THE CONTRACTOR SHALL DISTURB ONLY AN AREA THAT CAN BE STABILIZED AT THE END OF EACH WORKDAY. NO AREAS SHALL BE LEFT UN-STABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN EROSION & SEDIMENT CONTROL DEVICE.
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NAVAL FACILITIES ENGINEERING COMMAND  
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION  
MARINE CORPS BASE QUANTICO  
P714 REPAIR OCS ELECTRIC SYSTEM  
QUANTICO, VA
- NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
MARINE CORPS BASE QUANTICO, VA  
P714 REPAIR OCS ELECTRIC SYSTEM  
SUBSTATION, CONDUITS, AND CABLES
- EROSION & SEDIMENT CONTROL NOTES
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- 
- SUMMER CONSULTANTS INCORPORATED  
2500 Westpark Drive | Suite 400 | McLean, VA 22102  
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www.alphacorporation.com
- APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE 14/01/16

DES SRC NPT DRW SRC CHK JAD

<<PMO>>

BRANCH MANAGER

CHIEF ENGINEER

<X>>
- SCALE: AS NOTED

EPROJECT NO.: QU1536M

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 3189948

SHEET 39 OF 105
- C-132

DRAWING REVISION: 10 MARCH 2009



Virginia Runoff Reduction Method Worksheet

Virginia Runoff Reduction Method Worksheet

Virginia Runoff Reduction Method ReDevelopment Worksheet - v2.8 - June 2014

Site Data Summary

Total Rainfall = 43 inches

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Turf (acres)	0.00	0.00	0.00	0.68	0.68	76.66
Impervious (acres)	0.00	0.00	0.00	0.21	0.21	23.34
				0.89		100.00

Site Rv	0.41
Post Development Treatment Volume (ft <sup>3</sup> )	1331
Post Development TP Load (lb/yr)	0.84
Post Development TN Load (lb/yr)	5.98
Total TP Load Reduction Required (lb/yr)	0.10

Total Runoff Volume Reduction (ft <sup>3</sup> )	163
Total TP Load Reduction Achieved (lb/yr)	0
Total TN Load Reduction Achieved (lb/yr)	0.74
Adjusted Post Development TP Load (lb/yr)	0.73
Remaining Phosphorous Load Reduction (lb/yr) Required	0.00

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Turf (acres)	0.25	0.00	0.00	0.00	0.00	0.25
Impervious (acres)	0.03	0.00	0.00	0.00	0.00	0.03
						0.28

Drainage Area Compliance Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
TP Load Red. (lb/yr)	0.10	0.00	0.00	0.00	0.00	0.10
TN Load Red. (lb/yr)	0.74	0.00	0.00	0.00	0.00	0.74

Summary Print

Drainage Area A Summary

Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Turf (acres)	0.00	0.00	0.00	0.25	0.25	89.29
Impervious (acres)	0.00	0.00	0.00	0.03	0.03	10.71
					0.28	

BMP Selections

Practice	Credit Area (acres)	Downstream Practice
9.b. Sheetflow to Conservation Area with C/D Soils (Spec #2)	Impervious: 0.03	
	Turf (Pervious): 0.25	

Total Impervious Cover Treated (acres)	0.03
Total Turf Area Treated (acres)	0.25
Total TP Load Reduction Achieved in D.A. A (lb/yr)	0.10
Total TN Load Reduction Achieved in D.A. A (lb/yr)	0.74

Summary Print

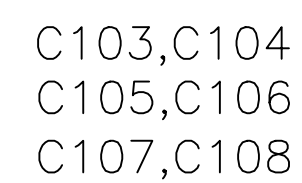
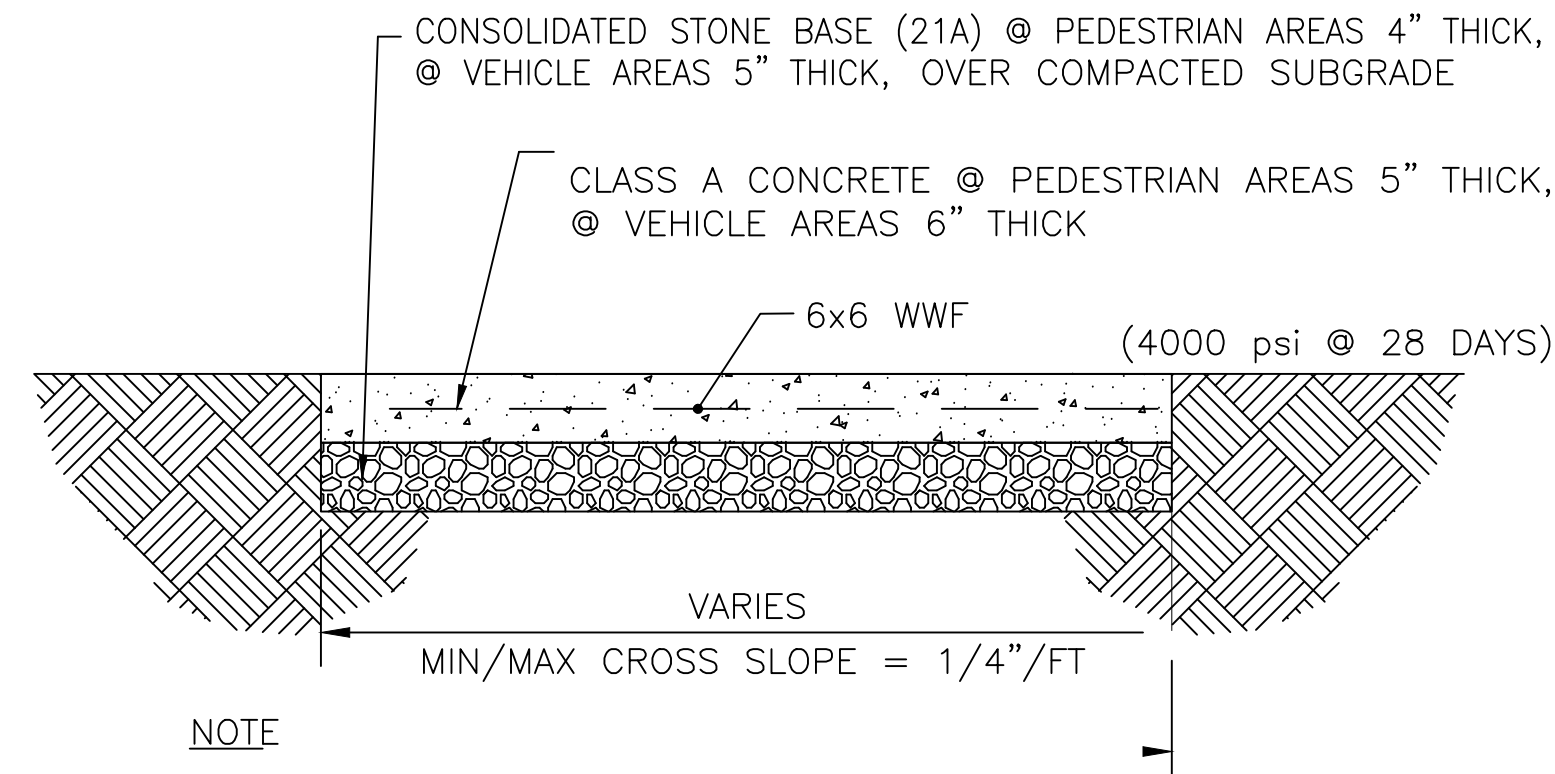
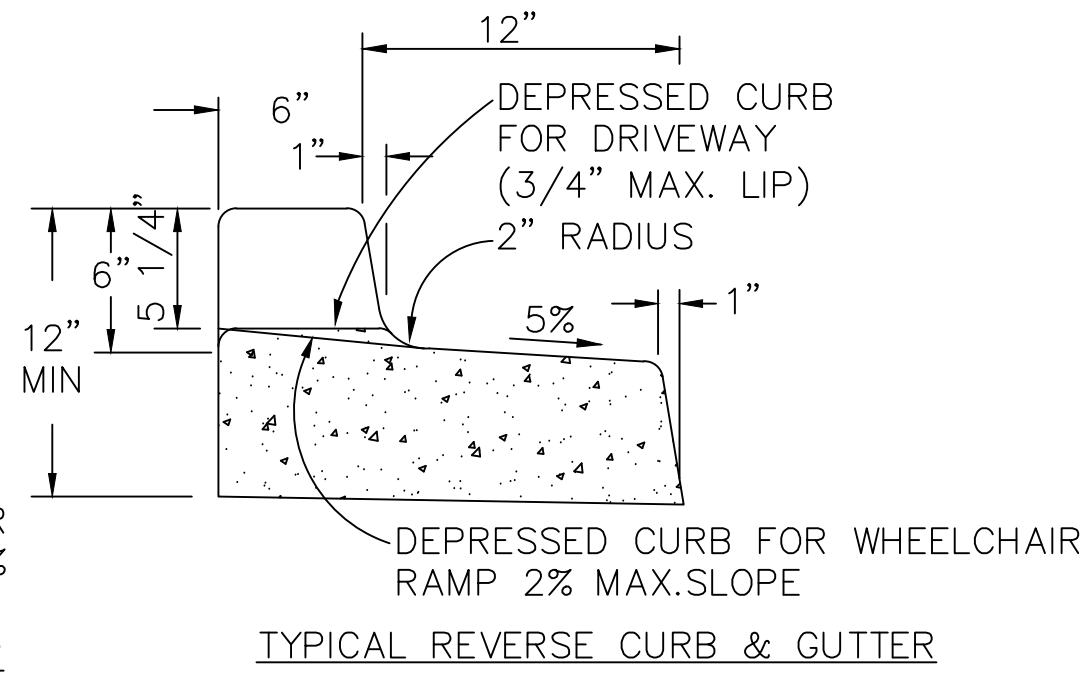
Virginia Runoff Reduction Method Worksheet

Channel and Flood Protection

	Weighted CN	1-year storm Adjusted CN	2-year storm Adjusted CN	10-year storm Adjusted CN
Target Rainfall Event (in)		4.88	5.75	7.27
D.A. A CN	82	80	80	80
D.A. B CN	0	#N/A	#N/A	#N/A
D.A. C CN	0	#N/A	#N/A	#N/A
D.A. D CN	0	#N/A	#N/A	#N/A
D.A. E CN	0	#N/A	#N/A	#N/A

Summary Print





SCALE:	AS NOTED		
PROJECT NO.:	QU1536M		
CONSTR. CONTR. NO.			
AVFAC DRAWING NO.			
3189950			
SHEET	41	OF	105
C-134			